

ACCESSION NR: AT3011981

$H_2O_2$  to give a surface-recombination rate of 100-300 cm/sec. The rate on the other side, which was roughened with emery paper, was about 10 000 cm/sec. This difference in rate on opposite sides gave rise to nonlinear volt-ampere characteristics, shown in Fig. 2 (see Enclosures). Relationships of depth of modulation, efficiency of modulator, and time for establishing pulse are summarized in Figs. 3, 4, and 5 (see Enclosures). The authors conclude that Si has considerable promise for modulators/computed at high power levels. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 14Oct63

ENCL: 05

SUB CODE: PH

NO REF Sov: 001

OTHER: 005

Card 2/7

I 17997-63

EWT(1)/EWG(k)/BDS AFFTC/ASD/ESD-3/IJP(C) Pz-4 AT

ACCESSION NR: AP3001279

S/0181/63/005/006/1605/1610

AUTHORS: Gershenson, Ye. M.; Gurvich, Yu. A.; Litvak-Gorskaya, L. B.

G  
3

TITLE: Magnetic-concentration effect in semiconductors

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1605-1610

TOPIC TAGS: semiconductor, magnetic-concentration effect, surface recombination, free path, electron density, hole density

ABSTRACT: The authors examine an approximation theory of changes in resistance of plates for the case when considerable changes in resistance are possible, i.e., when the ratio of electron to hole density differs from unity by an appreciable factor and when the rates of surface recombination at opposite edges differ sharply. A theory was first developed for a plate in which the thickness is small compared to the length and width. A magnetic field was considered to be directed along the width, an electrical field along the length. The values of specific resistance of the plate in the imposed fields and without the fields was computed and plotted. Such values were then obtained by experiment on an actual plate. A comparison of the two sets of values is shown in Fig. 1 (see enclosure). The authors conclude that their theory may be used to evaluate the efficiency of ultra-high-frequency modulators.

Card 1/32 ASSOCIATION: Moscow State Pedagogical Institute

GURVICH, Yu.A.

Cyclotron resonance on hot electrons. Fiz. tver. tela 5 no.10:  
2786-2791 O '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V.I.  
Lenina.

ACCESSION NR: AP4041716

S/0181/64/006/007/2107/2112

AUTHOR: Gurvich, Yu. A.

TITLE: Anisotropic scattering of hot electrons in semiconductors

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2107-2112

TOPIC TAGS: electron scattering, acoustic scattering, phonon, relaxation time

ABSTRACT: A method developed by A. G. Samoylovich et al. (FTT v. 3, 2939, 1961) is used to investigate acoustic scattering of hot electrons in Ge and Si. It is shown that the scattering is described by the relaxation-time tensor in the limiting cases of forced interaction or of interaction resulting from spontaneous phonon emission. This is caused by the fact in Ge and Si the true acoustic spectrum can be replaced by an isotropic spectrum. In the case of forced interaction the ratio of the longitudinal relaxation time to the

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ACCESSION NR: AP4041716

transverse one is found to be constant, equal to its equilibrium value, and noticeably larger than in the latter case, when it is likewise constant. A formula is given for the calculation of the tensor components. Orig. art. has: 18 formulas..

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V. I. Lenina (Moscow State Pedagogical Institute)

SUBMITTED: 25Nov63

ENCL: 00

SUB CODE: SS, NP

NR REF SOV: 006

OTHER: 006

Card

2/2

GURVICH, Yu.A.

Anisotropic scattering of hot electrons in semiconductors. Fiz. tver.  
tela 6 no.7:2107-2112 Jl '64. (MIRA 27:10)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut imeni V.I.Lenina.

L 23525-65 EWA(h)/EWG(k)/EWT(l)/T Pg-6/Peb IJP(n) AT  
ACCESSION NR: AP4046659 S/0185/64/009/009/0048/0955,

AUTHOR: Gershenson, Ye. M.; Gurvich, Yu. O. (Gurvich, Yu. A.);  
Litvak-Gors'ka, L. B. (Litvak-Gorskaya, L. B.)

TITLE: On the realization of an amplifier using negative masses of current carriers in semiconductors

SOURCE: Ukrayins'kyi fizy\*chny\*y zhurnal, v. 9, no. 9, 1964, 948-956

TOPIC TAGS: negative mass current carrier; semiconductor, amplifier, anisotropic electromagnetic absorption, germanium

ABSTRACT: H. Kromer (Prve. IRE 47, 407 (1959)) has suggested the possibility of constructing an amplifier and a generator based on negative effective masses. The authors of the present paper have investigated this question experimentally and theoretically, and come to the conclusion that such an amplifier, or generator, working on negative effective masses of the holes in Ge cannot be realized. An anisotropic absorption of electromagnetic power in germanium in a strong electric field was found. Orig. art. has: 5 figures and 4 equations.

Card 1/2

L 23325-65  
ACCESSION NR: AP4046659

ASSOCIATION: Moskovs'kyj pedinstitut im. V. I. Lenina (Moscow Pedagogical Institute)

SUBMITTED: 05Jun63

ENCL: 00

SUB CODE: EC

NO REF SOV: 004

OTHER: 006

Card 2 / 2

L 23522-65 EHT(m)/EWP(b)/EWP(t) IJP(c) JD  
ACCESSION NR: AP4046686 S/0186/84/009/009/1032/1034

AUTHOR: Bakun, F. I.; Gershenson, Ye. M.; Gurvy\*ch, Yu. O. 3

TITLE: On the heating of free current carriers in germanium in the cyclotron resonance

SOURCE: Ukrayins'ky'y fizy\*chny\*y zhurnal, v. 9, no. 9, 1964, 1032-1034

TOPIC TAGS: cyclotron resonance, hot electron, conductivity, germanium, electron energy distribution

ABSTRACT: Under the conditions of a cyclotron resonance, the current carriers strongly absorb the energy of the electro-magnetic wave, and they may be "heated", so that the distribution function deviates from the Boltzmann distribution and the time of free path depends on the electro-magnetic power. This will result in the change of the absorption curve and in the conductivity in germanium. In the work by E. Hanamura and J. Juni (J. Phys. Soc. Japan 17, 666 (1962)) these phenomena were treated by setting up equations of motion and energy balance. The concept of electron temperature was introduced which at low electrons density is not applicable. Their results are cumbersome and their handling require

Card 1/2

L 23522-65

ACCESSION NR: AP4046668

extensive computations. The present work gives a kinetic theory of cyclotron resonance with hot electrons. It is assumed that the main mechanism of scattering is given by interaction with acoustical phonons. Orig. art. has: 1 figure

ASSOCIATION: Moskova'skiy pedinstitut im. V. I. Lenina (Moscow Pedagogical Institute)

SUBMITTED: 05Jun63

ENCL: 00

SUB CODE: NP, EE

NO REF SOV: 002

OTHER: 005

Caro 2/2

L 52002-65 EWT(1)/T/EWA(h) Feb/Pz-6 IJF(c) AT  
ACCESSION NR: AP5012545

UR/0181/65/007/005/137B/1381

AUTHOR: Gershenson, Ye. M.; Gurvich, Yu. A.; Litvak-Gorskaya, L. R.

TITLE: Anisotropic absorption of electromagnetic waves by hot carriers in semiconductors

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1378-1381

TOPIC TAGS: semiconductor, carrier temperature, electromagnetic wave absorption, microwave measurement, anisotropy, carrier effective mass, germanium, hot carrier

ABSTRACT: This research was undertaken in connection with attempts to observe the influence of negative effective masses of holes on the absorption of electromagnetic waves in germanium. Preliminary experiments (UFZh v. 9, #48, 1964) have shown that in a strong electric field the absorption of electromagnetic power by the semiconductor exhibits an anisotropy that is caused only by the presence of a dc drawing field. The present investigation consisted of more thorough experiments in which a germanium slab was exposed simultaneously to two electromagnetic waves, one with an electric field parallel to the drawing field, and the other perpendicular to it. This was done by clamping the germanium between two round

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L 52002-65

2

ACCESSION NR: AP5012545

dielectric waveguides carrying two coherent TM<sub>11</sub> waves of mutually perpendicular polarization. The measurements were made at 77K using a p-Ge sample with a resistivity of 30 ohm-cm at room temperature; a pulsed drawing field was used. The details of the apparatus and of the experiments, which were performed at the 3-cm wavelength, were described in the cited paper and in PTE v. 10, no. 3, 1965. Some unaccounted for errors that are inherent in microwave measurements, wherein the carriers are heated by placing the sample in such a way that the microwave field is parallel to the drawing field, are briefly discussed. These cast doubts on the accuracy of results obtained by A. F. Gibson et al. (J. Phys. Chem. Sol. v. 19, 198, 1961 and elsewhere). The results show conclusively that absorption of electromagnetic waves by hot carriers in a semiconductor depends on the mutual orientation of the drawing electric field and the electric field vector of the wave. "The authors are grateful to L. A. Plokhova for participating in the experiments." Orig. art. has: 3 figures and 3 formulas. [02]

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V. I. Lenina  
(Moscow State Pedagogical Institute)

Card 2/3

L 52002-65

ACCESSION NR: AP5012545

SUBMITTED: 09Nov64

ENCL: 00

STB CODE: SS

NO. REF SOV: 002

OTHER: 005

ATT PRSS: 4009

b3b

Card 3/3

GURVICH, V.L.A.

Anisotropic scattering in semiconductors. Pla. tver. tela 7  
no.6:1696-1698 Je '65. (IUGA 18:6)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut imeni  
Lenina.

GERSHENZON, Ye.M.; GURVICH, Yu.A.; RADINOVICH, N.I.

Interaction between current carriers in semiconductors. Fiz.  
tver. tela 7 no.6:1706-1709 Je '65. (MIRA 18:6)

1. Moskovskiy gosudarstvennyj pedagogicheskij institut imeni  
Lenina.

L 31159-66 EWT(1)/EWT(m)/T/EWP(t) IJP(c) JD/AT  
ACC NR: AP6006810 SOURCE CODE: UR/0181/66/008/002/0332/0341

AUTHOR: Blagosklonskaya, L. Ye.; Gershenson, Ye. M.; Gurvich, Yu. A.; Ptitsyna, N.  
G.; Serebryakova, N. A.

ORG: Moscow State Pedagogical Institute im. V. I. Lenin (Moskovskiy gosudarstvennyy pedagogicheskiy institut) 45  
41

TITLE: Cyclotron resonance of hot electrons in silicon and germanium

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 332-341

SOURCE: RIZING OVERVIEW  
TOPIC TAGS: cyclotron resonance, electron, silicon semiconductor, germanium semiconductor, impurity scattering

**ABSTRACT:** The cyclotron resonance of hot electrons in silicon and germanium was measured at 4.2 and 1.4°K in the three-centimeter range. Single crystal specimens of *p*-type silicon and germanium were used with a resistivity of 5000-18000 and approximately  $70 \Omega \cdot \text{cm}$  respectively and a donor-acceptor impurity concentration of less than  $5 \cdot 10^{13} \text{ cm}^{-3}$ . The free carriers in the specimens were excited by light from an incandescent lamp modulated with a frequency of 500 cps. The cyclotron resonance was recorded as a function of magnetic field strength. The level of the

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L 31159-66  
ACC NR: AP6006810

incident resonator power was varied within a range of 60 db. The maximum power corresponded to a field on the specimen of the order of 20 v/cm. Curves are given showing the half width of the resonance line as a function of the incident power. Line width measurements give identical results for all specimens in strong electric fields. The resonance lines show different widths for various specimens in weak fields due to impurity scattering. At 4.2°K in fields greater than 10 v/cm in germanium and 6 v/cm in silicon, a region of spontaneous emission of acoustic phonons is observed. At 1.4°K, this region is observed in both semiconductors starting from fields of 2 v/cm. In stronger fields  $\tau \propto E^{-1}$ , while in weaker fields  $\tau \propto E^{1/2}$ . In this field intensity interval as well as in the region of spontaneous emission, the resonance curves for hot electrons are described by a single parameter which is of the order of the relaxation time at  $E = 0$ . The authors thank Yu. P. Ladyzhinskiy for assistance with the calculations, and M. I. Ginzburg and G. I. Kononov for furnishing the germanium and silicon single crystals. Orig. art. has: 3 figures, 24 formulas.

49, 55 18  
SUB CODE: 20/ SUBM DATE: 08Jun65/ ORIG REF: 006/ OTH REF: 008

Card 2/2 L/C

REF ID: A6531835 SOURCE CODE: UR/6053/66/000/006/E092/E092

A. V. NIKON; Blikun, F. I.; Gershenson, Ye. M.; Gurvich, Yu. A.; Ptitsina, N. G.

TITLE: Investigation on the warming up of the charge carrier in Ge at cyclotron resonance

SOURCE: Ref. zh. Fizika, Abs. 6E722

REF SOURCE: Tr. 1-y Mezhvuz. konferentsii ped. in-tov po radiofiz. i spektroskopii. M., 1965, 187-205

TOPIC TAGS: cyclotron resonator, microwave spectroscope, shf spectrometer, charge carrier, germanium, hot electron

ABSTRACT: The cyclotron resonance of hot electrons in Ge is investigated both theoretically and experimentally. Theoretically, it is shown that, in the case of medium and strong electric fields, the isotopic part of the distribution function depends on the incident radiation frequency. In the case of strong fields, an expression is derived for the shape of the resonant line. The investigations were carried out on three Ge specimens at a frequency of 9.7 cps at T = 4.2K. An autodyne TWT microwave spectroscope using a reflecting operating resonator,

Card 1/2

L 09428-67

ACC NR: AR6031885

which is connected in the external feedback circuit of the oscillator by means of a double T-bridge, is used as the SHF-spectrometer. The curves of the dependence of value  $(\omega t)^{-1}$  (where  $\omega$  is the frequency,  $t$  — the mean time of pulse relaxation) on incident power have the following three peculiarities:  
1) smaller  $m^*$  ( $m^*$  is the effective mass) have a smaller  $(\omega t)^{-1}$  at smaller powers; 2) for small  $m^*$ , the curves have a greater incline; 3) for large  $m^*$ , the curves diverge considerably. For smaller  $m^*$ , the curves virtually coincide. An interpretation of these peculiarities, which takes into consideration the power energy zone structure in p-Ge, is given. F. Nad'. [Translation of abstract]

SUB CODE: 20/

Card 2/2

ACC NR: AP6011265

SOURCE CODE: UR/0413/66/000/006/0109/0109

AUTHORS: Gurvich, Yu. A.; Shatunovskiy, V. R.; Beskopyl'nyy, N. N.; Glad'ko, L. Ya.; Sokol, S. I.; Iyashenko, A. A.

ORG: none

TITLE: Four-pivot Cardan transmission. Class 47, No. 180023

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 109

TOPIC TAGS: mechanical power transmission device, motion mechanics

ABSTRACT: This Author Certificate presents a four-pivot Cardan transmission consisting of rollers and hinges. To produce a uniform revolution of a given machine shaft at any angle of the Cardan bend, the transmission is placed in three rigid casings (see Fig. 1). These casings are hinged to one another, and the two outside casings are rigidly connected to circular ratchet sectors in mesh. These sectors move the hinges through equal angles while the machine is working. To compensate for the excessive length of the rollers as compared with the length of the casings while the transmission undergoes bending, the roller in the middle casing is made to carry a bearing coil with prongs which enter the guides of the casings.

Card 1/2

UDC: 621.83:621.825.6

ACC NR: AP6011265

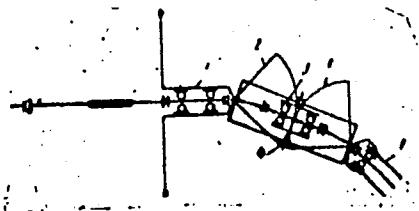


Fig. 1. 1 - rigid casings; 2 - toothed sectors; 3 - coil; 4 - guides

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 10Apr64

Card 2/2

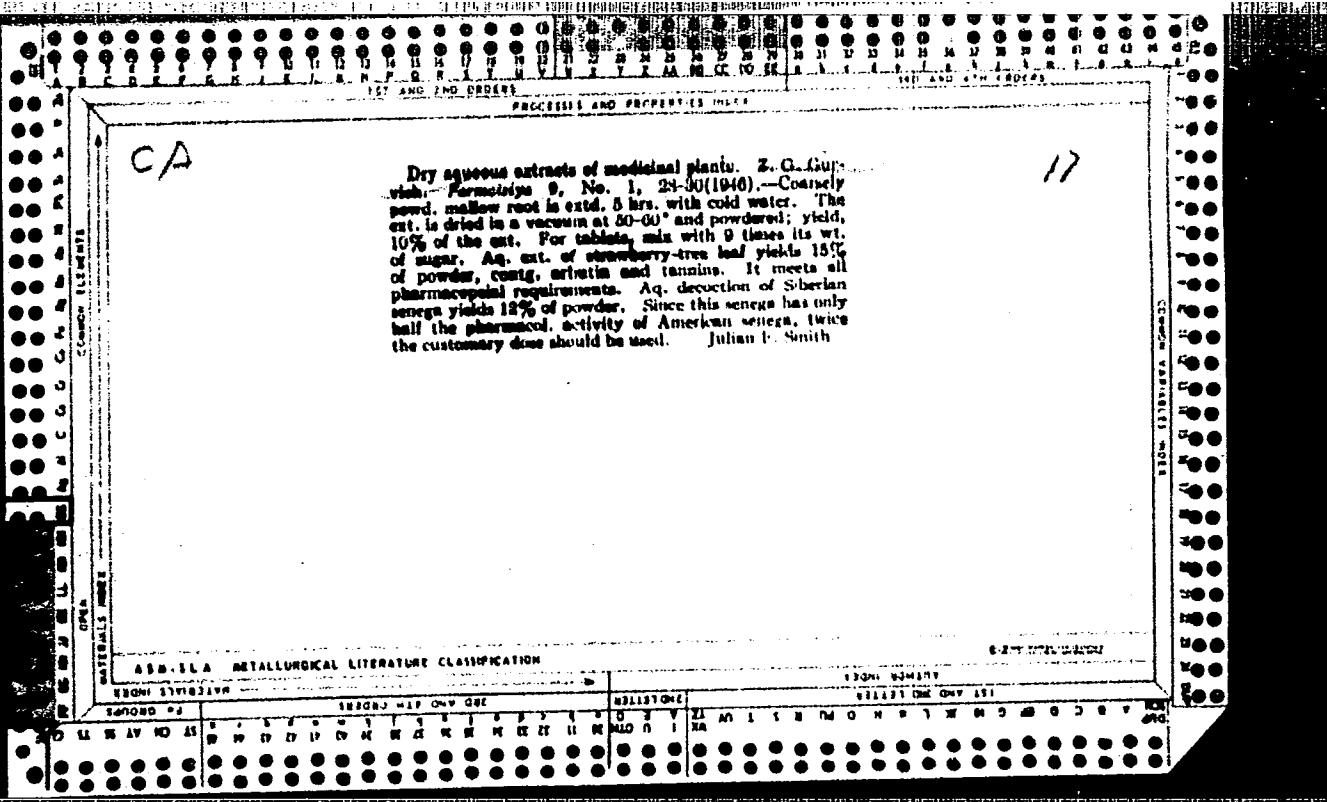
GURVICH, Yu.V.; KAPLAN, D.A.; KATSNEL'SON, G.N.

Analysis of the productivity of slitters. Bum.prom. 36 no.2:22-  
24 F '61. (MIRA 14:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut po proyektirovaniyu bumagodelatel'nykh mashin.  
(Papermaking machinery)

GURVICH, Yu.V.; KAPLAN, D.A.; KATSNEL'SON, G.N.; NIKHAMKIN, E.A.

Effect of basic parameters on the production capacity of a slitter.  
Bumagodel.mash. no.9:155-172 '61. (MIRA 15:1)  
(Papermaking machinery)



1. GUVICH, Z. S.
2. USSR (600)
4. Dosiology
7. Dosage in pharmaceutics. Apt. delo no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

GURVICH, Z.G. khimik-analitik.

Apparatus for preparing decoctions and infusions. Apt. delo. 4 no.6:  
40-41 N-D '55. (MIRA 9:1)

(PHARMACY, apparatus and instruments,  
for decoctions & infusions)

GURVICH, Z.G., khimik-analitik

Research work in pharmacies. Apt.delo 6 no.1:59-60 Ja-F '57.  
(MLRA 10:3)

1. Iz apteki No.22 (Moskva)  
(PHARMACY)

GURVICH, Z.G., provizor

Correct preservation of drugs. Zdorov'e 4 no.11:30 N '58.  
(DRUGS--PRESERVATION) (MIRA 11:11)

GURVICH, Z.G., khimik-analitik

More attention to pharmaceutical literature. Apt.delo 7 no.3  
41-43 My-Je '58 (MIRA 11:7)

1. Iz apteki No.22, Moskva.  
(PHARMACOLOGY)

GURVICH, Z.G., khimik-analitik

Improvement in selling drugs not requiring a prescription. Apt.  
delo 7 no.4:49-50 Jl-Ag '58 (MIRA 11:8)

1. Is apteki No.22, Moskva.  
(DRUGSTORES)

CURVICH, Z.G. (Moskva)

Work of the pharmaceutical study circles in drugstores. Apt.delo 8  
no.5:62-63 S-O '59. (MIRA 13:1)  
(PHARMACY--STUDY AND TEACHING)

GURVICH, Zel'man Gilelevich; LEVINSHTEYN, D.I., red.; BUL'DYAYEV, N.A.,  
tekhn.red.

[Incompatible mixtures and prescriptions which are hard to fill;  
concise handbook for the practical physician and pharmacist in  
filling prescriptions] Meratsional'nye i zatrudnitel'nye retsepty;  
kratkoе spravochnoe posobie dlja prakticheskogo vracha i farma-  
tsevta pri sostavlenii i vypolnenii retsepta. Moskva, Gos.izd-vo  
med.lit-ry Medgiz, 1960. 150 p. (MIRA 14:3)  
(MEDICINE--FORMULAE, RECEIPTS, PRESCRIPTIONS)

GURVICH, Z.G. (Moskva)

Apparatus for dividing a bar of suppository material and preparing vaginal globules. Apt. delo 10 no. 1:65-66 Ja-F '61.

(MIRA 14:2)

(DRUGSTORES—EQUIPMENT AND SUPPLIES) (SUPPOSITORIES)

GURVICH, Z.G. (Moskva)

Chicory as an auxiliary substance for pills. Apt. delo 10 no.3:  
62 My-Je '61. (MIRA 14:7)  
(CHICORY)

GURVICH, Z.G., provizor (Moskva)

Proper storage of drugs in therapeutic institutions. Med. sestra  
20 no.4:50-51 Ap '61. (MIRA 14:5)  
(DRUGS--PRESERVATION)

GURVICH, Z.G. (Moskva)

Preservation of medicinal leeches in medical institutions.  
Med.sestra 21 no.11:55-65 N '62. (MIRA 16:3)  
(LEECHES)

GURVICH, Zel'man Gilelevich; ANTONOV, B.N., red.; BUKOVSKAYA, N.A.,  
tekhn. red.

[Newest medicinal substances; a brief manual with direc-  
tions for prescription writing] Noveishie lekarstvennye  
sredstva; kratkii spravochnik s retsepturoi. Moskva, Med-  
giz, 1963. 118 p. (MIRA 16:7)  
(MEDICINE--FORMULAE, RECEIPTS, PRESCRIPTIONS)

GURVICH, Z.G., provizor (Moskva)

Deadlines of storage and serviceability for drugs used in  
medical institutions. Med. sestra 22 no.3:39-41 Mr'63.

(MIRA 16:6)

(DRUGS--PRESERVATION)

GURVICH, Z.G. (Moskva)

Storage of rubber articles in medical institutions. Med. sestra  
22. no.4854 Ap '63. (MIRA 16:7)  
(RUBBER GOODS-STORAGE)

GURVICH, Z.G., provizor (Moskva)

Compatibility of medicinal substances. Med. sestra 22 no.6:  
35-36 Je'63. (MIRA 16:9)  
(INCOMPATIBLES (PHARMACY))

GURVICH, Z.I., provizor (Moskva)

Medicinal substances. Med. sestra 22 no.9:53-55 S'63.  
(MIRA 16:10)  
(DRUGS)

GURVICIENE, F.Z.

1. GURVICIYENE, F.Z.
2. USSR (600)
4. Croup
7. True and false croup, Vop pediat. 21 no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

GURVICHENE, F.Z.

Effect of the external environment on the course of pneumonia  
in infants. Pediatriia no.2:31 Mr-Ap '54. (MLRA 7:6)

1. Iz I sovetskoy klinicheskoy bol'nitsy g. Kaunas (Litovskaya SSSR)  
(PNEUMONIA, in infant and child,  
\*eff. of environment)  
(ENVIRONMENT, effects,  
\*on pneumonia in inf.)

GURVICHENE, F.Z. [Gurviciene, F.Z.]

Method for palpating the stomach in children suspects of having  
appendicitis. Pediatrīja no.11:76-77 N '57. (MIRA 11:2)

1. Iz detskogo otdeleniya 1-y sovetskoy klinicheskoy bol'nitsy  
Kaunasa (zav. F.Z.Gurvichene, i. o.dir. I.Nageris)  
(APPENDICITIS)

GURVICHENE, F.Z. [Gurvičiène, F.Z.]

Problem of intravenous drip infusions in children. Pediatriia 37  
no.10:62-66 0 '59. (MIRA 13:2)

1. Iz detskogo otdeleniya l-y klinicheskoy Sovetskoy bol'nitsy Kaunasa  
(glavnyy vrach S.S. Stanionis, zaveduyushchiy otdeleniyem F.Z. Gurvi-  
chene).

(INFUSIONS PARENTERAL in inf. & child.)

GURVIS, Yu., [Gurvis J.], prof., doktor tekhn.nauk

Great usefulness of a small device. Nauka i zhyttia 9  
no.5:39-41 My '59. (MIRA 12:9)  
(Bullition)

GURVITS, A.A., inzh.

A nozzle-type ash collector. Elek.sta. 33 no.12:10-13 D '62,  
(MIRA 16<sup>2</sup>)  
(Furnaces)

GURVITS, A.A., kand. tekhn. nauk

Motion of solid particles in a gas flow. Izv. vys. ucheb. zav.;  
energ. 6 no.8:80-89 Ag 163. (MIRA 16:9)

1. Vsesoyuznyy teplotekhnicheskiy institut imeni Dzerzhinskogo.  
Predstavlena nauchno-tehnicheskim soveshchaniyem.  
(Gas dynamics)

PRIVALOV, N.N.; KRYLOV, V.A.; GURVICH, A.S., inzhener, redaktor; BEGAI, E. .  
redaktor, VOLKOV, V.S., tekhnicheskij redaktor.

[Assembling mechanical equipment of blast furnace sestroyat'za me-  
khanicheskogo oborudovaniia domennykh tsakhov. Moskva, Gos.izd-vo  
lit-ry po stroit. i arkhitekture, 1956. 295 p. (MLRA 9:5)  
(Blast furnaces)

KRYLOV, V.A., inzhener; GURVITS, A.I., nauchnyy redaktor; KRYUGER, Yu.V.,  
redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Efficient methods of assembling travelling cranes] Ratsional'nye  
metody montazha mostovykh kranov. Moskva, Gos. izd-vo lit-ry po  
stroit. i arkhit., 1957. 90 p. (MLRA 10:6)  
(Cranes, derricks, etc.)

ZIL'BERMAN, Aron Ayzikovich; KULINOK, Yekaterina Afanas'yevna; GORA, A.P.,  
redaktor; GURVITS, A.I., redaktor; ZINGER, S.L., redaktec izdatel'stva;  
MIKHAYLOVA, V.V., tekhnicheskiy redaktor.

[Manual on the repair of blast and open-hearth furnaces] Spravochnik  
po remontu domennyykh i martenovskikh pechei. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 526 p.  
(MIRA 10:11)

(Blast furnaces--Maintenance and repair)  
(Open hearth furnaces--Maintenance and repair)

AUTHOR: Gurvits, A.I. (Senior engineer) 130 - 6 - 20/27

TITLE: Organisation of repair services in metallurgical works.  
(Organizatsiya remontnoy sluzhby na metallurgicheskikh zavodakh).

PERIODICAL: "Metallurg" (Metallurgist), 1957, No.6, p.37 (USSR).

ABSTRACT: The author discusses the recent article by V.F.Ivanov (Metallurg, 1957, No.5) in relation to the Magnitogorsk and Kuznetsk Metallurgical combines and the "Azovstal'" metallurgical works. He criticises Ivanov's proposals for three types of repair-service organisation and suggests that real assembly and repair workshops would sometimes be essential, and outlines their organisation and functions.

ASSOCIATION: Department of the Chief Mechanic of the Ministry of Ferrous Metallurgy of the USSR (Otdela Glavnogo Mekhanika MChM SSSR).

AVAILABLE:

Card 1/1

PISAREVSKAYA, Klara Isidorovna; CHUMICHEV, Aleksey Grigor'yevich;  
BIRZOVSKIY, Semen Mikhaylovich [deceased]; GURVITS, A.I., red.;  
LANOVSKAYA, M.P., red. izd-va; BUKKER, O.G., tekhn. red.

[Operation of equipment used for the separation of scrap metal]  
Eksploatatsiya oborudovaniia dlia razdelki metalicheskogo loma.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1958. 251 p. (MIRA 11:8)  
(Scrap metal industry--Equipment and supplies)

BARCH, I.Z., inzh.; DZHIOYEV, I.M., inzh.; PONOMARENKO, N.I., inzh.;  
RUBINSHTEYN, M.Z., inzh.; GURVITS, A.I., inzh., nauchnyy red.;  
VLASOV, P.Ye., red.izd-va; SOLNTSEVA, L.M., tekhn.red.

[Using sectional reinforced concrete construction in building  
blast furnace plants] Primenenie sbornykh zhelezobetonykh  
konstruktsii na stroitel'stve ob"ektov domennykh tsakhov.  
Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.mate-  
rialam, 1959. 63 p. (MIRA 12:8)

(Metallurgical plants--Design and construction)  
(Precast concrete construction)

LUKASHKIN, Nikolay Ivanovich, inzh. [deceased]; GURVITS, A.I., inzh., nauchnyy red.; ISAYEV, N.V., inzh., nauchnyy red.; YUDINA, L.A., red.izd-va; OSENKO, L.M., tekhn.red.

[Construction of blast furnace plants] Stroitel'stvo domennykh tsakhov. Izd.2., perer. i dop. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 614 p.  
(MIRA 13:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Lukashkin).

(Blast furnaces--Design and construction)

ZYUZIN, Vladimir Ivanovich; GURVITS, A.I., red.; VALOV, N.A., red.;  
VAGIN, A.A., red.izd-va; ATTOPOVICH, M.K., tekhn.red.;  
MIKHAYLOVA, V.V., tekhn.red.

[Mechanical equipment of metallurgical plants; manual for  
construction engineers and mechanics] Mekhanicheskoe oborudova-  
nie metallurgicheskikh tsekhov; posobie dlia konstruktorov  
i mekhanikov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po  
chernoi i tsvetnoi metallurgii, 1960. 334 p.

(MIRA 14:1)

(Metallurgical plants--Equipment and supplies)  
(Rolling mills)

KRYLOV, V.A.; SIMACHEV, L.V.; GURVITS, A.I., inzh., nauchnyy red.; VOLNYANSKIY, A.K., glavnyy red.; SOKOLOV, D.V., zam.glavnogo red.; TARAN, V.D., red.; SREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.; GORDEYEV, P.A., red.izd-va; UDOD, V.Ya., red.izd-va; EL'KINA, E.M., tekhn.red.

[Reference book on special work; mechanical assembly work in industrial construction] Spravochnik po spetsial'nym rabotam; mekhanomontazhnye raboty v promyshlennom stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 498 p. (MIRA 14:4)

(Machine-shop practice)

GORA, Aleksandr Petrovich; ZIL'BERMAN, Aron Ayzikovich; GAL'PERIN, A.S.,  
inzh., retsenzent; GURVITS, A.I., inzh., red.; VAGIN, A.A.,  
red.izd-va; MIKHAYLOVA, V.V., tekhn.red.

[Blast furnace repairs] Remonty domennyykh pechей. Moskva. Gos.  
nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii,  
1960. 543 p. (MIRA 13:10)  
(Blast furnaces--Maintenance and repair)

PRIVALOV, Nikolay Nikolayevich; KRYLOV, Vladimir Aleksandrovich, inzh.;  
GURVITS, A.I., inzh., nauchnyy red.; YUDINA, L.A., red. izd-va;  
OSENKO, L.M., tekhn. red.

[Assembly of the mechanical equipment of blast furnace plants]  
Montazh mekhanicheskogo oborudovaniia domennykh tsekhov. Izd.2.,  
perer. i dop. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i  
stroit. materialam, 1961. 333 p. (MIRA 15:2)  
(Blast furnaces--Design and construction)

L'VOVSKIY, Pavel Grigor'yevich; PAL'NOV, Ye.V., prof., doktor tekhn.  
nauk, retsenzent; SHKLOVSKIY, M.V., inzh., retsenzent;  
GURVITS, A.I., inzh., retsenzent; NOSENKO, S.M., inzh.,  
retsenzent; SAKHARIN, N.N., inzh., retsenzent; SOSKIN, M.D.,  
inzh., red.; BALAZOVSKIY, M.Ya., inzh., red.; CHAPAYKINA, F.K.  
red. izd-va; KRYZHOOVA, M.L., red.izd-va; MATLYUK, R.M., tekhn.  
red.; TURKINA, Ye.D., tekhn. red.

[Manual for mechanics in metallurgical plants] Spravochnoe ruko-  
vodstvo po mekhanike metallurgicheskogo zavoda. Izd.4., ispr. i  
dop. Sverdlovsk, Metallurgizdat, 1961. 1105 p. (MIRA 15:3)

(Mechanical engineering)  
(Metallurgical plants--Equipment and supplies)

KAMYSHEV, Aleksandr Georgiyevich; TARSHIS, D.M., red. izd-va; GURVITS,  
A.I., red.; ISLENT'YEVA, P.G., tekhn. red.

[Electric bridge cranes] Mostovye elektricheskie krany; po-  
sobie dlia mashinistov. Moskva, Metallurgizdat, 1962. 182 p.  
(MIRA 15:12)

(Electric cranes)

SAPKO, Aleksandr Ivanovich; GURVITS, A.I., red.; MIKHAYLOVA, Ye.P.,  
red. izd-va; ISLEM'Yeva, P.G., tekhn. red.

[Tender and operator of an electric steel smelting plant]  
Slesar'-mekhanik elektrostaleplavil'nogo tsekhha. Moskva,  
Metallurgizdat, 1962. 190 p. (MIRA 15:10)  
(Steel--Electrometallurgy)  
(Electric furnaces--Maintenance and repair)

KRYLOV, V.A.; GURVITS, A.I., inzh., retsenzent; SIMACHEV, I.V., inzh.,  
retsenzent; YEZDCKOVA, M.L., red.izd-va; ISLENT'YEVA, P.G.,  
tekhn. red.

[Installation of metallurgical equipment] Montazh metallurgi-  
cheskogo oborudovaniia. Moskva, Metallurgizdat, 1963. 289 p.  
(MIRA 16:8)  
(Iron and steel plants--Equipment and supplies)

KRYLOV, V.A.; IPATOV, P.P., retsenzent; FINKEL', A.F., retsenzent;  
CURVITS, A.I., inzh., nauchn. red.

[Assembling the equipment of steel smelting plants] Mon-  
tazh oborudovaniia staleplavil'nykh tsekhov. Moskva,  
Stroizdat, 1964. 289 p.  
(MIRA 17:6)

GURVITS, I.G.

New glass products for construction. Stek.i ker. 17 no.7:  
4-8 Jl '60. (MIRA 13:7)  
(Glass construction)

GURVITS, I.G.; ZHELEZTSOV, V.A.

Factory experimental shop. Stak. i kor. 17 no.10:21-22 '60.  
(MIRA 13:10)  
(Glass research)

GURVITS, L.

In the crater of a volcano. Vokrug sveta no.2:31-32 F '55.  
(Paramushir Islands—Volcanoes) (MIRA 8:4)

15 2120

32370  
S/072/62/000/001/003/003  
B105/B110

AUTHOR: Gurvits, L. G.

TITLE: Using vibratorily ground sand for the melting of poorly fusible glasses

PERIODICAL: Steklo i keramika, no. 1, 1962, 14 - 16

TEXT: Vibratorily ground sand is used at the Konstantinovskiy zavod "Avtosteklo" (Konstantinovka "Avtosteklo" Plant) to intensify the melting of poorly fusible, thermostable borosilicate glasses. Experimental melts of MKP-1(MKR-1) glass of the following chemical composition (in % by weight) were made: 80.6 SiO<sub>2</sub>, 1.5 Al<sub>2</sub>O<sub>3</sub>, 0.5 MgO, 12 B<sub>2</sub>O<sub>3</sub>, 4.9 Na<sub>2</sub>O, 0.5 As<sub>2</sub>O<sub>3</sub>.

The grinding fineness of the sand was characterized by the specific surface (540 cm<sup>2</sup>/g) determined by means of the Tovarov apparatus. The sand was ground in a continuous vibration installation with a KO8-500(KOV-500) classifier. The grinding balls were pressed from the glass to be produced. Collaborators of the experimental department of the plant and of the UFVNIIS recommended to line the inner surface of the mill with glass.

Card 1/2

Using vibratorily ground sand...

32370  
S/072/62/000/001/003/003  
B105/E110

Melting of glass with vibratorily ground sand takes 28 hr. and with ordinary sand 38 hr. In both cases, the melting temperature is  $1580 \pm 10^{\circ}\text{C}$  and the refining temperature  $1610 \pm 10^{\circ}\text{C}$ . By using vibratorily ground sand for melting poorly fusible borosilicate glasses it was possible to shorten the melting cycle by an average of 8 hr; to lower melting and refining temperature by  $80 - 90^{\circ}\text{C}$ , thus reducing specific fuel consumption, increasing the furnace service life from 10 to 15 months, and reducing production costs. At present, borosilicate glasses (MKR-1 and pyrex) are molten in all tank furnaces of the plant from a charge with ground sand. Work was also carried out for melting thermostable glass no. 31 on the basis of vibratorily ground sand. These experiments were conducted jointly with collaborators of the VNIITISM. There are 3 figures and 1 table.

Card 2/2

GURVITS, L. KH.

Torgovye vychisleniya [Commercial arithmetic]. Izd. 2-e. Moskva, Gostorgizdat, 1953.  
184 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

GUEVITS, Lev Khaimovich; YUDINA, L.A., red.; PYATAKOVA, N.D., tekhn.  
red.

[Commercial computing] Khoziaistve nye vychisleniia; uchebnoe  
posobie dlja podgotovki schetovodov i bukhalterov promyshlennych  
predpriatii. Izd.2., perer. i dop. Moskva, Gosstatizdat, 1962. 174 p.

(MIRA 16:3)

(Accounting)

GURVITS, L.M.

Dispensary observations on patients with peptic ulcer in a  
rural community. Sov.Med. 27 no.7:79-81 J1'63. (MIRA 16:9)

1. Iz Mikhaylovskoy rayonnoy bol'nitsy (glavnnyy vrach D.S.  
Ridchenko) Stavropol'skogo kraya; nauchnyy rukovoditel'  
raboty - dotsent N.A. Aushev.  
(PEPTIC ULCER)

ACCESSION NR: AP4012547

S/0056/64/046/001/0213/0217

AUTHORS: Gurvits, S. A.; Migdal, A. A.; Polyakov, A. M.

TITLE: Boundary energy of a Fermi gas in a potential well

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 213-217

TOPIC TAGS: Fermi gas, quantum mechanics, potential well, quantiza-  
tion, Fermi energy, boundary Fermi energy, neutron Fermi energy,  
heavy nucleus Fermi energy, Fermi nucleusABSTRACT: A quasi-classical quantization condition is obtained for  
a spherically symmetrical potential and is used to obtain the first  
two terms of an expansion of the number of particles, expressed in  
the form of a function of the Fermi-gas boundary energy, in powers  
of the dimensions of the system for this potential. The method  
given makes it possible to make similar calculations for any poten-  
tial well with a diffused edge. By regarding nucleons as a Fermi gas

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ACCESSION NR: AP4012547

in such a potential, it is possible to apply the results obtained to a calculation of the boundary energy of Fermi nuclei. The final formula can be represented in the form

$$\epsilon/\epsilon_{\infty} = 1 + A^{-1/4} / (N/A),$$

where  $f(x)$  is given by

$$\begin{array}{cccccccccccc} x & 0,50 & 0,52 & 0,54 & 0,56 & 0,58 & 0,60 & 0,62 & 0,64 & 0,66 & 0,68 & 0,70 \\ f(x) & 1,74 & 1,71 & 1,51 & 1,50 & 1,40 & 1,34 & 1,20 & 1,13 & 1,00 & 0,90 & \end{array}$$

and which is accurate to within 1--2 MeV. Orig. art. has: 26 formulas.

ASSOCIATION: Moskovskiy fiziki-tehnicheskiy institut (Moscow Physico-technical Institute)

Cord 2/17

3,6 16 Apr 63

YEGOROV, K.P., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk;  
VOSTOKOV, N.N.; NECHAY, F.A.; GURVITS, Sh.F.

Remarks on IU.M.Korobov's article "What a telephone apparatus should  
be like." Vest.sviazi 14 no.2:30-31 F '54. (MLRA 7:5)

1. Zaveduyushchiy kafedroy LMEIS (for Yegorov).
2. Glavnyy inzhener 3-go Glavnogo upravleniya MNESEP (for Vostokov).
3. Ispolnyayushchiy obyazannost' inzhenera Kiyevskoy gorodskoy telefonnoy seti (for Nechay).
4. Nachal'nik proizvodstvennoy laboratorii (for Gurvits).  
(Korobov, IU.M.) (Telephone--Apparatus and supplies)

6 (7)

SOV/111-59-10-16/23

AUTHOR: Gurvits, Sh.F., Chief, and Balezin, V.A., Engineer

TITLE: Operational Experience with the Un-manned Apartment House ATS with a Capacity of 100 Numbers

PERIODICAL: Vestnik svyazi, 1959, Nr 10, pp 26-27 (USSR)

ABSTRACT: This article deals with the operation of an un-manned automatic telephone station (ATS), intended for telepho-nization of separate houses or apartment buildings, in operation since June, 1958, in a 120-apartment dwelling house on the Kiyevskaya gorodskaya telefonnaya set' (GTS) (Kiyev Municipal Telephone Network); the ATS, with a "ten-step" dialing system, has been introduced into pro-duction. Although, states the author, operation of the ATS has been satisfactory, he notes several deficiencies in the circuit of the ATS, and presents modifications to correct them. Modifications to allow interruption of the conversation by the operator at the GTS, including instal-lation of a VG-2 (DGTs-24) rectifier bridge are described with the aid of diagrams (Figs. 1-3); 3 other alterations are also outlined. Elimination of these deficiencies.

Card 1/2

SGV/111-59-10-16/23

Operational Experience with the Un-manned Apartment House ATS with a Capacity of 100 Numbers

states the author, assured efficient operation of the ATS. A system allowing periodic checks on the operation of the apartment house ATS from the rayon ATS without occupying one of the cable pairs to the former (Fig 7) is also described. Installation of the ATS (Fig 8) is discussed, as is connection of the VT-61/4 rectifier unit, which powers the ATS equipment, to the AC mains. Recommendations for setting the ATS in operation are also noted. The author concludes that even the limited operational experience gained from this one installation supports the expediency of introducing such apartment house ATSs on municipal telephone networks. There are 7 schematic diagrams and 1 drawing.

ASSOCIATION: Proizvodstvennaya laboratoriya Kiyevskoy telefonnye seti (GTS) (Production Laboratory of the Kiyev Municipal Telephone Network)

Card 2/2

SOV/112-58-1-1621

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 1, p 238 (USSR)

AUTHOR: Gurvits, Sh. Kh.

TITLE: Higher Utilization of Office Switching Equipment Through Telephone Stations Paired by Blocking Devices (a suggestion offered for discussion)  
(Povysheniye ispol'zovaniya stantsionnogo oborudovaniya pri vkluchenii sparennykh telefonnykh apparatov s pomoshch'yu blokiratorov (v poryadke obsuzhdeniya))

PERIODICAL: Tr. Sektsii provodnoy svyazi Ukr. resp. pravl. Nauchno-tehn. o-va radiotekhn. i elekrosvyazi, 1956, Nr 2, pp 106-109

ABSTRACT: The author considers the existing connection method for paired telephone subscribers at the office, which requires a separate number in the connector bank for each paired telephone station, not economical enough from the viewpoint of utilization of telephone switching equipment. Furthermore, the method is feasible only when free subscriber capacity at the dial telephone station is available, not always the case in practice. He suggests connecting

Card 1/2

SOV/112-58-1-1621

Higher Utilization of Office Switching Equipment Through Telephone Stations . . . .

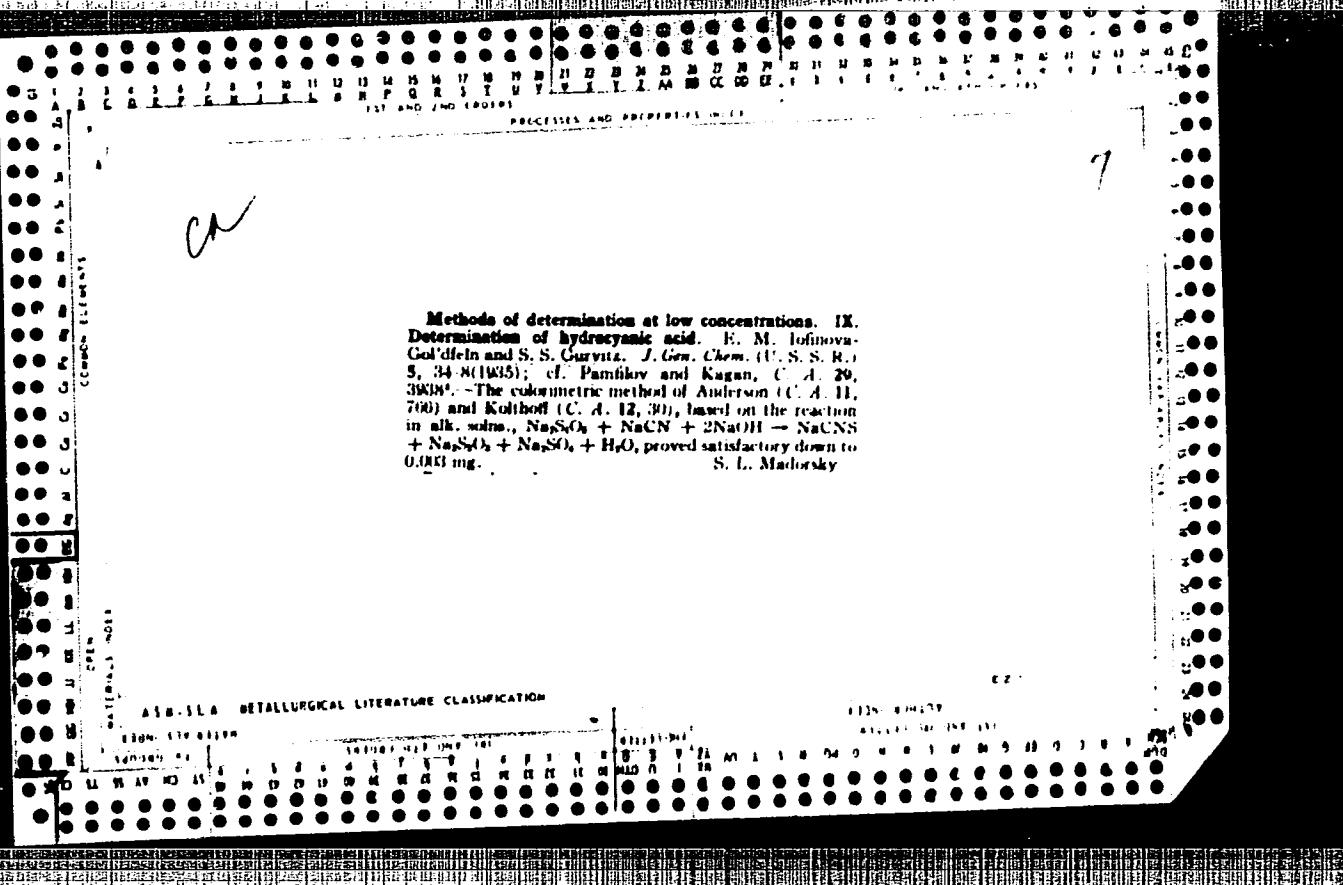
paired subscriber stations through a "crossing" relay, mounted on the connector's plate, that would secure separate calling of the paired stations over "a" and "b" wires. Subscribers' numbers of the paired stations should differ only by a digit in the hundredth place. Two decades in the selector bank of the last selection stage are singled out for calling subscribers. For long-distance communication similar changes are introduced in the trunk connector plate, with the only difference being that the crossing relay should be installed on the wiring side of the preselector rack because of lack of room on the plate. The proposed method has been tested at the operating laboratory of the Kiyev GTS (City Telephone System) with positive results.

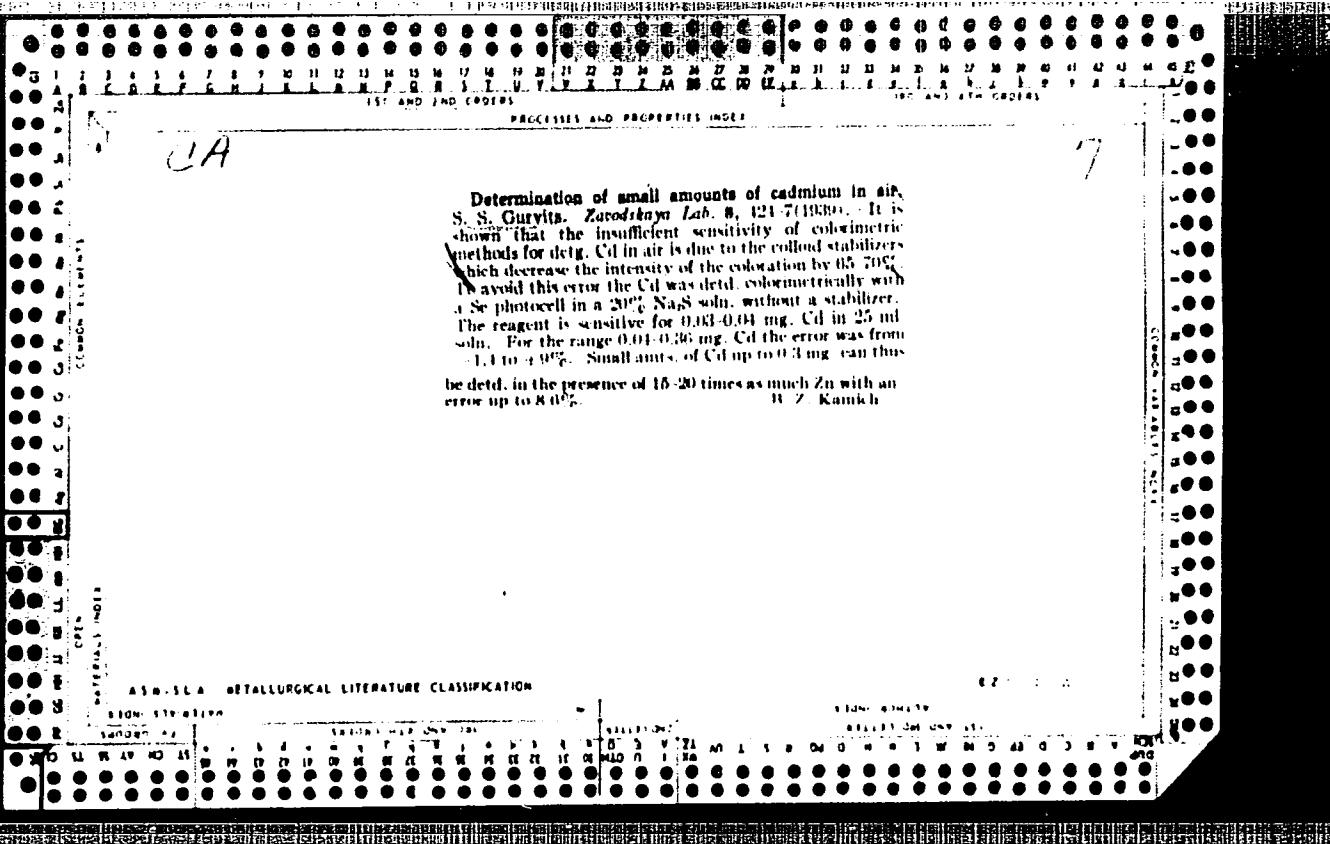
N. V. Z.

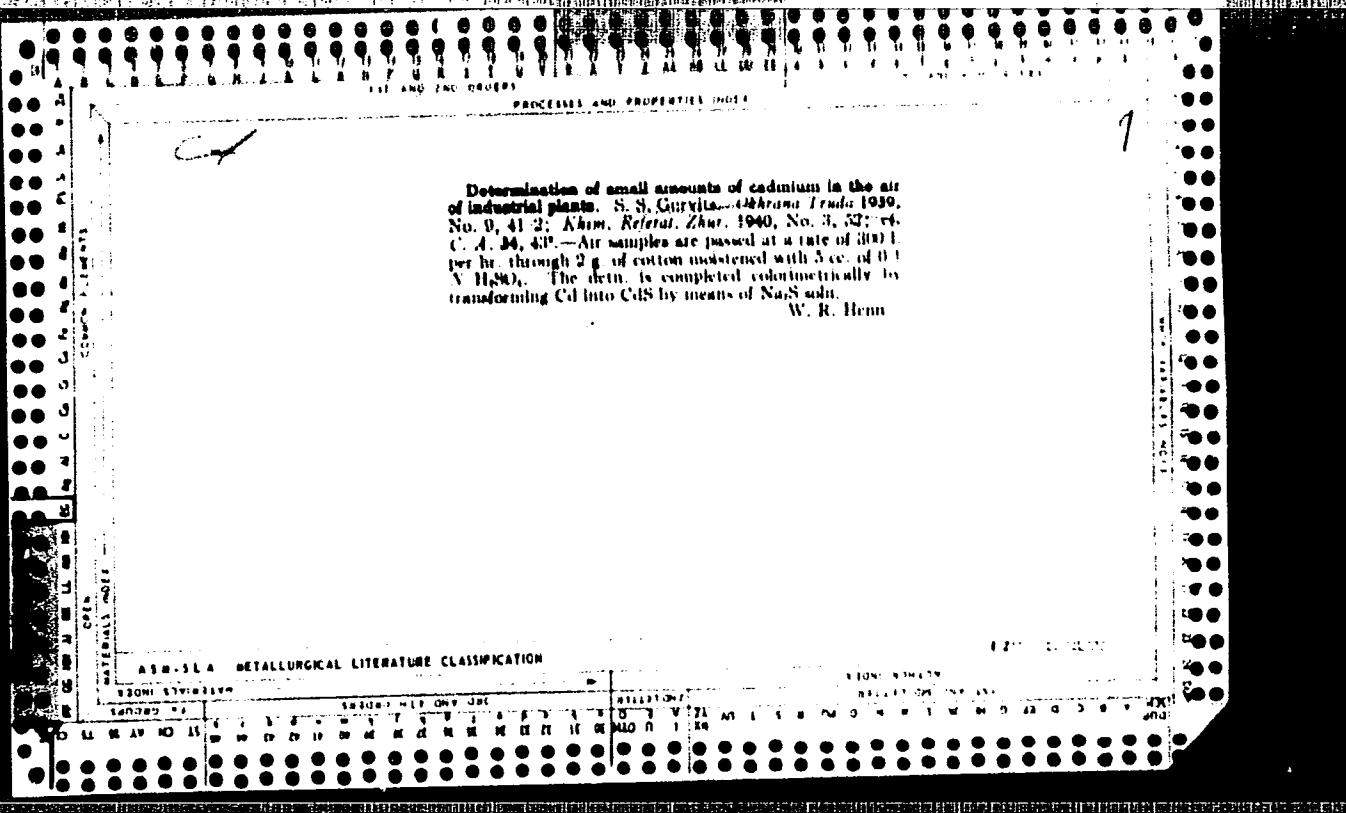
AVAILABLE: Library of Congress

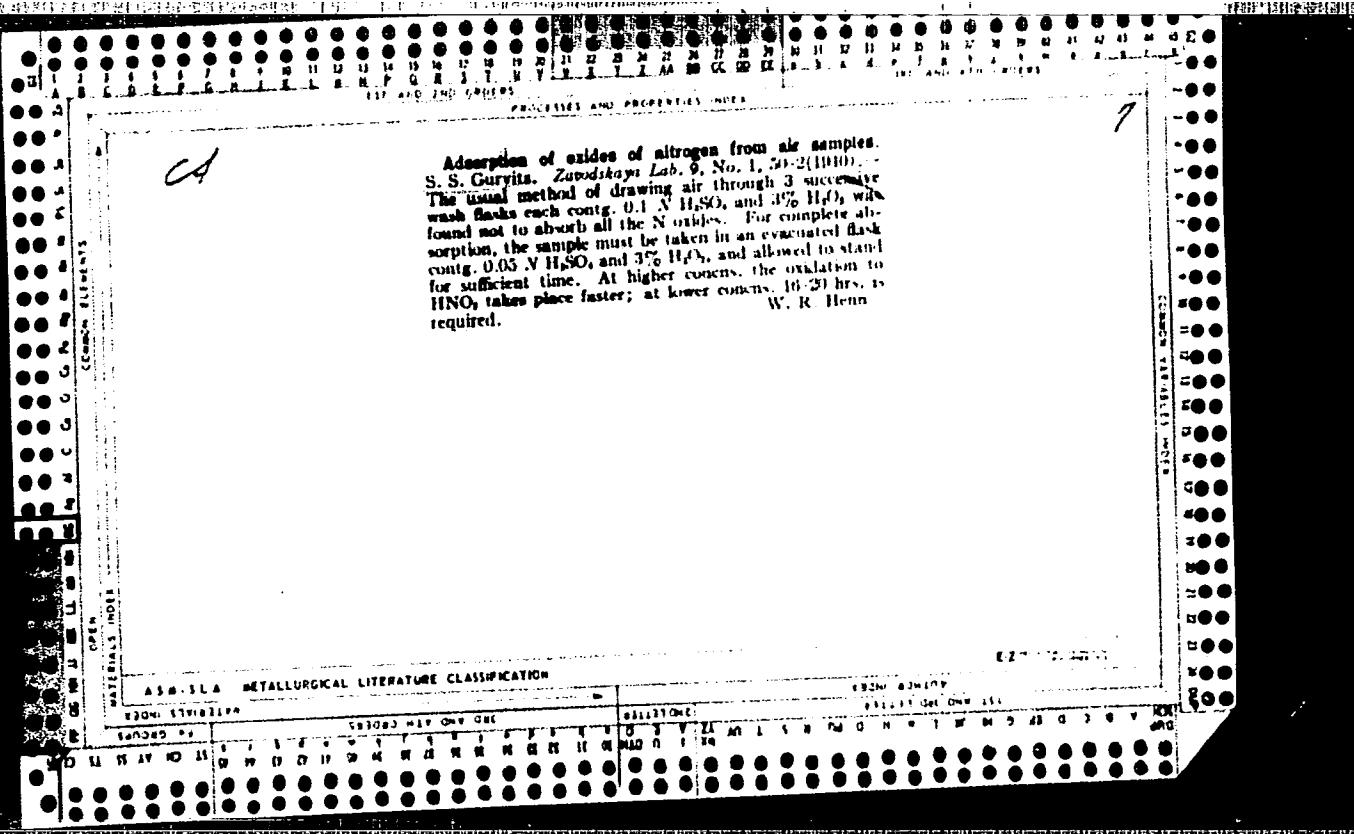
1. Telephone communication systems
2. Communication equipment--Performance
3. Switching circuits--Applications

Card 2/2









*AC5**Chemistry & Physics*

Determination of quartz in the presence of silicates. S. S. GUJARATI AND V. V. PODALTA. *Zerodiskayin Lab.*, 10 [8] 935-38 (1948).—Grind the sample to about 2 to 3 $\mu$  and carefully beat 0.1 to 0.2 gm. in a Pt crucible with 5.0 to 10.0 ml. of HCl (1:10) on a sand bath for 10 to 15 min. Add 5 ml. of water, heat to boiling, filter, and wash the residue twice with 5-ml. portions of hot HCl (1:5) and then three times with 5-ml. portions of hot water. Ignite the residue in a Pt crucible and then ignite in a muffle furnace for 20 to 30 min. Add 5.0 ml. of 48% H<sub>2</sub>SiF<sub>6</sub> and

let stand for 24 to 30 hr. Filter, wash three times with 5.0-ml. portions of hot water, and ignite in a muffle furnace for 20 to 30 min. to constant weight. Carefully moisten with water, add 2 to 3 drops of H<sub>2</sub>SO<sub>4</sub> (1.8*l*) and 3 to 5 ml. of HF, evaporate to dryness on a sand bath, and again ignite to constant weight. The difference between the two weighings is the quartz.

B.Z.K.

7

CA

Determination of small quantities of vinyl acetate.  
S. S. Gavrilova and P. A. Mel'nikova, *Zavodskaya Lab.*  
15, 673-3 (1980).—Small amounts of vinyl acetate can be  
detd. by saponif. 30 min. at 45–50° with 0.01 N NaOH, in  
the presence of EtOH, followed by back-titration. Simi-  
larly, bromination by 0.01 N Br in 1% aq. NaBr is satis-  
factory. Alternatively, fuchsin-H<sub>2</sub>SO<sub>4</sub> color with hy-  
drolyzed vinyl acetate can be used for detg. AcH generated  
during hydrolysis, with 0.02 N NaOH for 30 min.; in this

case color matching with a standard scale is used, giving  
detns. with 10% abs. accuracy. G. M. Kosolapoff

CYA

Determination of low concentrations of tetraethyl silicate  
in air. S. S. Gurvits and T. I. Sergeeva (All-Union Ind.-  
Health Inst., Moscow). "Gigiena i Sanit.", 1951, No. 9, 39-  
41.—The detn. is done colorimetrically with the blue re-  
duced complex of siliconolybdc acid. The air is sampled  
into EtOH absorbers or in wet paper filters moistened with  
10% H<sub>2</sub>SO<sub>4</sub>, after which usual digestion with H<sub>2</sub>SO<sub>4</sub>, calcin-  
ing the evapd. residue with Na<sub>2</sub>CO<sub>3</sub>, and soln. in hot H<sub>2</sub>O  
preceded the conventional Si detn. Satisfactory detns. can  
be made on 1-5 mg. G. M. Kosolapoff

Scanned by S.A.

ALEKSEYEVA, M.V.; ANDRONOV, B.Ye.; GURVITS, S.S.; ZHITKOVA, A.S.;  
SHTAL', V.K., redaktor; RAKOV, S.I., tekhnicheskiy redaktor.

[Identification of harmful agents in the air of industrial installations] Opredelenie vrednykh veshchestv v vozdukhe proizvodstvennykh pomeshchenii. Izd. 2-e. Moskva, Gos.nauchno-tekhn. izd-vo khimicheskoi lit-ry, 1954. 409 p.  
(MIRA 8:4)  
(Air--Analysis)

GURVITS, S. S..

USSR

2683. Trapping of aerosols in taking samples of air from production sites. D. N. Vasilevich and S. S. Gurvits (Zavod. Lnb., 1950, 21 (1), 33-34).— Experiments were carried out on aerosols produced by heating 1- or 2-naphthol in a porcelain dish. Filters of various pore-sizes were placed at different distances from the fog generator and the rate of suction of air through the filters was varied. The samples were removed from the filters by means of ethanol under suction. Particle sizes of material collected on a microscope slide were also determined. It is shown that there is a limiting rate of flow of air above which a filter becomes ineffective. Results for various filters, flow rates, etc., are tabulated.

G. S. Smriti

ALEKSEYVA, M.V. (Moskva); GURVITS, S.S. (Moskva); KHALIZOVA, O.D. (Moskva)

Formation and development of Russian industrial and sanitary chemistry.  
Gig.truda i prof.zab. 1 no.5:49-52 S-O '57. (MIRA 10:11)

1. Nauchno-issledovatel'skiy sanitarno-gigiyenicheskiy institut  
imeni F.F.Brismana, Institut okhrany turda Vsesoyuznogo tsentral'-  
nogo soveta profsoyuzov i Institut gigiyeny truda i profzabolevaniy  
AMN SSSR.

(SANITARY CHEMISTRY)

GURVITS, S.S., kandidat biologicheskikh nauk

Some remarks on the article by G.A. Beilikhis and N.D. Rozova on  
"Some problems in the work of industrial hygiene laboratories of  
hygienic and epidemiological stations." Gig. i san. 22 no.2:79-80 F '57  
(INDUSTRIAL HYGIENE) (MIRA 10:4)

GURVITS, S.S., SERGEYEVA, T.I. (Moskva)

Determination of phenol in the presence of polyatomic phenols in the  
air during shell molding processes. Gig.truda i prof. zav. 2 no.4:  
50-53 Jl-Ag '58 (MIRA 11:9)

1. Fiziko-khimicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'  
skogo instituta okhrany truda Vsesoyuznogo tsentral'nogo noveta  
profsoyuzov.

(PHENOL)  
(FOUNDING--HYGIENIC ASPECTS)

17(11) 21(8)

AUTHOR: Gurvits, S. S., Candidate of  
Chemical Sciences

SOV/32-24-11-35/37

TITLE: Protective Measures for Those That Work With Radioactive  
Substances (Mery zashchity rabotayushchikh s radioaktivnymi  
veshchestvami)  
Edited by Professor V. M. Zhdanov, Medgiz, 1958, 98 pages  
(Pod red. prof. V. M. Zhdanova, Medgiz, 1958, 98 str.)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 11, pp 1424-1424  
(USSR)

ABSTRACT: The book under review is a compilation of the present  
regulations and norms of the Glavnaya gosudarstvennaya  
sanitarnaya inspeksiya SSSR (Central State Health Inspec-  
tion of the USSR) concerning work with radioactive substances.  
In the Health Regulations 233-57 of January 14, 1957,  
requirements for production premises, ventilation and set-up,  
as well as directions for work with radioactive isotopes,  
their storage and transportation are listed. The Health  
Regulations 218-56 of June 1956 contain data concerning  
the requirements for wash-rooms and instructions concerning  
the handling of clothing and objects poisoned with radioac-

Card 1, 2

Protective Measures for Those That Work With  
Radioactive Substances. Edited by Professor V. M. Zhdanov, Medgiz, 1958,  
98 pages

SOV/32-24-11-35/37

tivity. The Health Regulations Nr 171-55 of February 1955 define the circumstances which can lead to a minimum of dangerous effects of gamma radiation upon the organism. The Regulations Nr 126-53 of March 18, 1953, also deal with measures of health protection in the above-mentioned field. The compilation under review also contains the decree of the Minister zdravookhraneniya SSSR (Minister of Health Protection of the USSR) Nr 203-M of September 7, 1955, concerning the special rights of individuals working with radioactive substances and sources of radiation. The decree of the Ministerstvo zdravookhraneniya SSSR (Ministry of Health Protection) Nr 356 of September 27, 1957, provides for the outfit of health stations with radiometric equipment.

ASSOCIATION: Radiologicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo instituta okhrany truda VTsSPS (Radiological Laboratory of the All-Union Scientific Research Institute of the Protection of Workers, VTsSPS).

Card 2/2

GURVITS, S., kand.biol.nuak; CHISTOV, Ye., inzh.

Determining radioactive contamination of air. Okhr.truda i  
sots.strakh. no.10:65-66 0 '59. (MIRA 13:2)  
(Radioactivity--Measurement)

21 5151

29422  
S/081/61/000/017/064/166  
B110/B138

AUTHORS: Breger, A. Kh., Gurvits, S. S., Pozdnyakova, L. A.,  
Chistov, Ye. D.

TITLE: Some protection problems in the use of radiation chemical  
apparatus

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1961, 306, abstract  
17N362 (Sb. nauchn. rabot in-tov okhrany truda VTsSPS,  
no. 4, 1960, 12-23)

TEXT: When studying the range of dose rates in the labyrinth protection  
of two radiation chemical research units, with strong Co<sup>60</sup>  $\gamma$  radiation  
sources of 21,000 and 16,000 g-equiv Ra, the authors found that, from  
the viewpoint of radiation safety, labyrinth shielding of both units  
reduces the dose rate down to tolerance level. The dose rate of  $\gamma$  radia-  
tion in labyrinths of the units is almost wholly due to scattered radia-  
tion. For a more rational design of the labyrinth it is recommended  
that the depth of the first concrete projection should be reduced. A  $\times$   
rough determination of the energy spectrum of the  $\gamma$  radiation in the

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Some protection problems in the use...

labyrinth is made from the absorption in lead filters. The scattered radiation is found to consist mainly (80 %) of a soft component with an energy 0.1-0.2 Mev. In the second and the following windings of the labyrinth there is only a slight change in the hardness of scattered radiation. An equation is suggested by means of which the range of dose rates in labyrinths can be calculated with a sufficient accuracy for practical purposes. [Abstracter's note: Complete translation.] X

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S/081/61/000/022/037/076  
B110/B101

AUTHORS: Breger, A. Kh., Gurvits, S. S., Pozdnyakova, L. A., Chistov,  
Ye. D.

TITLE: Experimental study of protection when using radiation-chemical  
units with powerful  $\gamma$ -radiation sources

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 270, abstract  
22I308 (Sb. "Radioakt. izotopy i yadern. izlucheniya v nar.  
kh-ve SSSR. v. I". M. Gostoptekhizdat, 1961, 241 - 243)

TEXT: On the basis of experimental results obtained in tests of the  
 $\chi$ -20000 (K-20,000) and H-16000 (N-16,000) units the field distribution of  
dose rates in the mazes of these units was given. The energy of scattered  
 $\gamma$ -radiation was estimated by the method of radiation absorption by lead  
filters. 80% of scattered radiation was found to consist of the soft  
component with an energy of 0.1 - 0.2 Mev. In the radiation maze, the  
energy of scattered radiation changes but slightly after the first turn.  
[Abstracter's note: complete translation.] X

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GURVITS, S.S.; SERGEYEVA, T.I. (Moskva)

Determination of small amounts of aldehydes in the air of  
industrial plants by the method of derived polarography.  
Gig. truda i prof.zab. 5 no.6:57-61 Je '61. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany  
truda Vsesoyuznogo tsentral'nogo soveta professional'nykh  
soyuzov.

(ALDEHYDES)  
(AIR ALDEHYDES)

21.7200

24167

S/032/61/027/005/017/017  
B110/B206

AUTHORS: Gurvits, S. S. and Chistov, Ye. D.

TITLE: New operating instructions for radioactive substances and ionizing radiation sources

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 5, 1961, 626-628

TEXT: In 1960 the new "Sanitary operating instructions for radioactive substances and ionizing radiation sources" no 333-60 were approved. They take into account the determination of the degree of danger; form of the substance (open or closed), physical state, radiation form and -energy, activity, period, relative radioactive toxicity, amount of substance and type of the technological process. Open substances are potential sources of internal irradiation; they are divided into four groups (Table). The laboratories are divided into those using > 100 curies, 10-100 curies and ≤ 10 curies annually. The maximum 3-year work permit is to be confirmed by sanitary certificates. This is unnecessary if control- and measuring devices have closed radiation sources. The staff (especially below the age of 18) is examined systematically, and should be informed of danger-

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New operating instructions for radioactive free working methods. Overcharging of the devices should be done by organizations holding a licence of the local sanitary authorities. In the case of closed radiation sources, forced draught ventilation is only required for  $> 10 \text{ g eq-Ra}$ . Stationary installations radiating to all sides should be placed in special rooms. For portable devices ( $\gamma$ -defectors-series production and installation of control- and measuring devices equipped with closed radiation sources only are authorized if the assembly-and operating instructions by the Gosudarstvennaya sanitarnaya inspeksiya SSSR (State Sanitary Inspection of the USSR) and the Komitet po ispol'zovaniyu atomnoy energii (Committee of Atomic Energy Utilization) are maintained. Danger zones must be marked by warning signs visible from at least 3 m distance. The radiation dose on the surface of the device must be  $\leq 10 \text{ mr/hr}$ , at a distance of 1 m.  $0.3 \text{ mr/hr}$ . The local sanitary authority must be notified within 10 days of the purchase of such devices. Individual protection by assemblies for operating and maintenance staff must be provided for  $\sim 1 \text{ hr}$  even if no dangerous gases are in the air, but the aerosol concentration is  $\leq 1000$  times of the permissible concentration. Deactivation is carried through in special laundries. Radiometric and

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